



## MARINE GENERATORS

# G-8T-3

Three-Phase

### General data

|                          |                |                 |           |
|--------------------------|----------------|-----------------|-----------|
| <b>Maximum power (2)</b> | 6.4 kW (8 kVA) | <b>Voltage</b>  | 400/230 V |
| <b>Prime Power (3)</b>   | 5.8 kW         | <b>Amperage</b> | 11.5 A    |
| <b>Frequency</b>         | 50 Hz          | <b>Phases</b>   | 3         |

### Dimensions and weights

|                                    |        |                                 |   |
|------------------------------------|--------|---------------------------------|---|
| <b>Total length without canopy</b> | 845 mm | <b>Total length with canopy</b> | - |
| <b>Total width without canopy</b>  | 482 mm | <b>Total width with canopy</b>  | - |
| <b>Total height without canopy</b> | 568 mm | <b>Total height with canopy</b> | - |
| <b>Dry weight without canopy</b>   | 175 Kg | <b>Dry weight with canopy</b>   | - |

### Engine

|                                 |                       |                             |                         |
|---------------------------------|-----------------------|-----------------------------|-------------------------|
| <b>Base engine manufacturer</b> | Mitsubishi            | <b>Diameter</b>             | 76 mm (2.99 in)         |
| <b>Model</b>                    | MINI-17               | <b>Stroke</b>               | 70 mm (2.76 in)         |
| <b>Type</b>                     | Diesel, 4 stroke      | <b>Compression ratio</b>    | 23:1                    |
| <b>Engine RPM</b>               | 3000                  | <b>Injection system</b>     | Mechanical and indirect |
| <b>Number of cylinders</b>      | 2                     | <b>Intake system</b>        | Naturally aspirated     |
| <b>Total displacement</b>       | 635 cc                | <b>SAE Flywheel housing</b> | SAE 5                   |
| <b>Oil</b>                      | SAE 15W40             | <b>Coolant capacity</b>     | 2.7 L (0.71 gal)        |
| <b>Oil capacity</b>             | 2.8 L (0.74 gal)      | <b>Flywheel</b>             | SAE 6 1/2               |
| <b>Power (1)</b>                | 10.1 kW (13.74 CV)    | <b>Coolant flow rate</b>    | 28 l/min (7.4 gal/m)    |
| <b>Salt water flow rate</b>     | 29 l/min (7.66 gal/m) | <b>Intake air flow rate</b> | 0.83 m <sup>3</sup> /m  |
| <b>Exhaust type</b>             | Wet exhaust elbow     | <b>V-Belt Protection</b>    | Optional                |

(1) Rating conditions according to ISO 3046 (100 kPa barometric pressure, 30 % relative humidity and 25 °C (77 ° F))

(2) Maximum output power: maximum power supplied by the genset at full load

(3) Prime Power: rated power according to ISO 3046 and ISO 8528-1. 10 % overload capacity one hour in twelve hours.  
1 kW = 1,36 CV 1 kW = 1,36 HP (metric) 1 kW = 1,36 CH

## Fuel system details

|                         |                    |                            |                     |
|-------------------------|--------------------|----------------------------|---------------------|
| <b>Consumption 25%</b>  | 1.3 l/h (0.34 gal) | <b>Fuel type</b>           | Diesel              |
| <b>Consumption 50%</b>  | 1.9 l/h (0.5 gal)  | <b>Fuel standards</b>      | Fueloil diesel ASTM |
| <b>Consumption 75%</b>  | 2.6 l/h (0.69 gal) | <b>Injection pump type</b> | In line             |
| <b>Consumption 100%</b> | 3.4 l/h (0.9 gal)  | <b>Governor type</b>       | Mechanical          |

## Electrical system

|                            |          |                             |          |
|----------------------------|----------|-----------------------------|----------|
| <b>Battery voltage</b>     | 12 V     | <b>Stop solenoid type</b>   | ETR      |
| <b>Starter motor</b>       | 1.2 kW   | <b>Alternator</b>           | 40 A     |
| <b>Earth isolated</b>      | Optional | <b>IP 65 box kit</b>        | Optional |
| <b>SCO 11 double panel</b> | Optional | <b>Current transformers</b> | Optional |

## Installation details

|   |                 |                                       |                 |
|---|-----------------|---------------------------------------|-----------------|
| <b>Exhaust hose inner diameter</b>      | 40 mm (1.57 in) | <b>Maximum fuel lift height</b>       | 0.3 m (0.98 ft) |
| <b>Sea water hose inner diameter</b>    | 20 mm (0.79 in) | <b>Maximum raw water lift height</b>  | 3 m (118.11 in) |
| <b>Fuel feeding hose inner diameter</b> | 8 mm (0.31 in)  | <b>Maximum sea water temperature</b>  | 32 ° (89.6 °F)  |
| <b>Fuel return hose inner diameter</b>  | 6 mm (0.24 in)  | <b>Maximum installation angle (6)</b> | 25 °            |
| <b>Minimum battery capacity</b>         | 12 V 45 Ah      |                                       |                 |

## Alternator details

|                           |            |  |                        |
|---------------------------|------------|--|------------------------|
| <b>Brand</b>              | Meccalte   | <b>Cos Phi</b>                         | 0,8                    |
| <b>Model</b>              | ET20FS-130 | <b>Tropicalized</b>                    | Yes                    |
| <b>Regulator type</b>     | ASR        | <b>Excitation system</b>               | Brushless              |
| <b>Number of poles</b>    | 2          | <b>Voltage regulation accuracy (5)</b> | 2,5%                   |
| <b>Isolation type (4)</b> | H          | <b>Alternator type</b>                 | Synchronous            |
| <b>IP protection</b>      | 23         | <b>Standards</b>                       | EN60034-1, IEC 60034-1 |

## Standard equipment

|                                 |                               |
|---------------------------------|-------------------------------|
| 4 m electrical wiring extension | SCO 5 control panel           |
| Oil extraction pump             | Owner's and alternator manual |
| Rigid bed                       | Packaging                     |
| Anti Vibration Mounts           |                               |

## Optional accessories

|  |                    |
|--|--------------------|
| Siphon break kit mandatory if generator is below waterline                               | Wet Exhaust System |
| Engine electrical system at 24 V   | Water Filters      |
| Service/Cruise Kits: fuel and oil filters, raw water pump, impeller, alternator belt,... | Sea water cock     |
| Dry Exhaust system   | Welcome Kit        |

(4) Other protections available

(5) With load from 0 to 100%, speed variation from -2% up to +5%, power factor 0,8 linear and balanced load.

(6) In all directions

For other requirements please contact the Sales Dept.

# SCO 11 Panel



## General Description

|   |
|---|
| Graphic LCD with light, 128 x 64 pixels display |
| Genset measures (see Display Information)       |
| Configuration protected by user and password    |
| Running hour indication                         |
| Multilingual                                    |
| Event history log                               |
| Genset protections (see Alarm Management)       |
| Preheating function                             |
| D+ pre-excitation Terminal                      |
| Built-in PLC function                           |
| CAN bus information with SAE J1939 protocol     |
| Maintenance hours control                       |
| Dimensions 195 x 135 x 47 mm                    |
| Panel cut-out 172 x 112 mm                      |
| Weight 450 g                                    |

## Alarm Management

|                                 |
|---------------------------------|
| Shutdown (SD)                   |
| Low/High Speed                  |
| Overload*                       |
| Short Circuit*                  |
| Overcurrent*                    |
| High/Low Voltage                |
| High/Low Frequency              |
| Emergency Stop                  |
| Warnings (WRN)                  |
| High engine coolant temperature |
| Low oil pressure                |
| High/Low Battery Voltage        |
| Maintenance warning             |
| Sensor failure detection (FLS)  |
| MCU Alarm                       |

## Operating modes

|                                     |                                   |
|-------------------------------------|-----------------------------------|
| OFF Mode                            | AUT Mode (auto start/stop engine) |
| MAN Mode (manual start/stop engine) |                                   |

## Power Supply

|  |
|--|
| Voltage supply 12/24 DC with fuse protection |
| Consumption 80mA (12V) or 51 (24V)           |

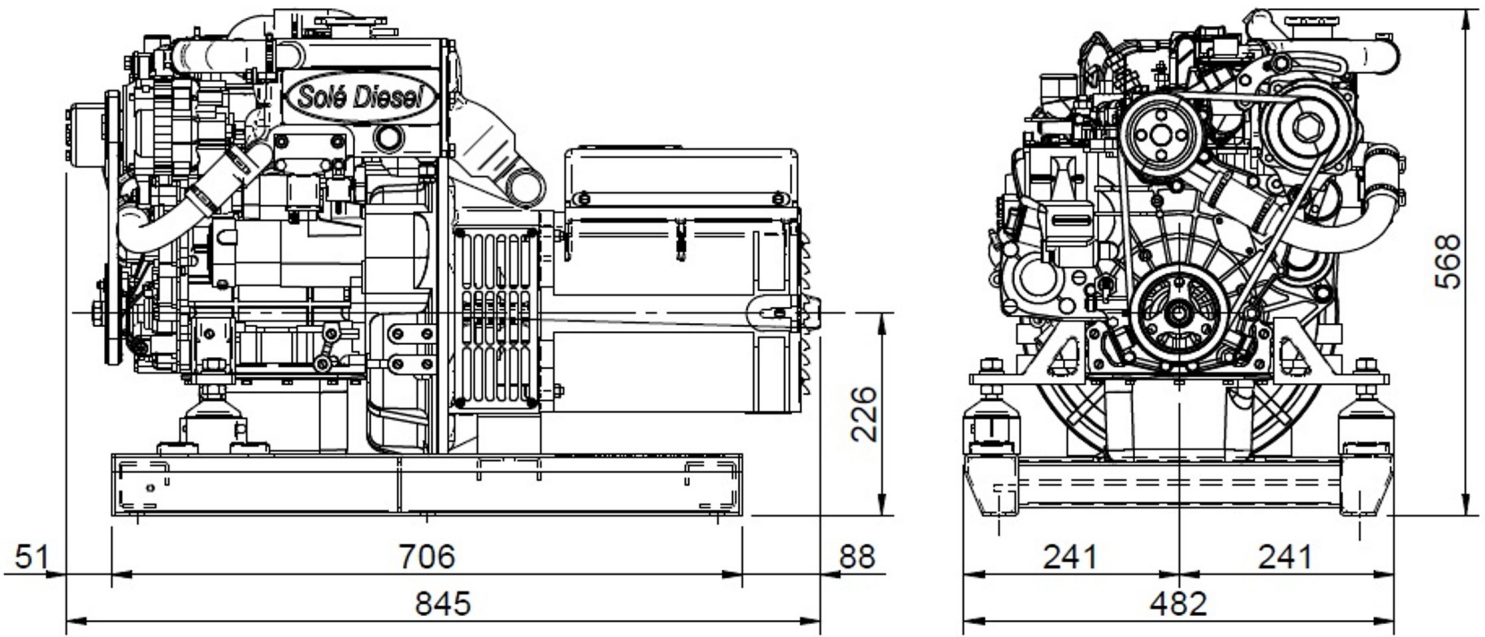
## Operating Conditions

|   |
|---|
| Operating temperature -20+70 °C                     |
| Humidity 95 % without condensation                  |
| Front Panel Protection IP65                         |
| Standard Conformity                                 |
| EN 61000-6-2, EN 61000-6-4, EN 61010-1              |
| EN 60068-2-6 (2÷25 Hz / ±1,6 mm; 25÷100 Hz / 4.0 g) |
| EN 60068-2-30:2005 25/55°C, RH 95%, 48hours         |
| EN 60529 (front panel IP65, back side IP20)         |

## Display Information

|                          |
|--------------------------|
| Measurement              |
| L1-L3 Voltage (V)        |
| Frequency (Hz)           |
| Oil Pressure (bar)       |
| Coolant Temperature (°C) |
| Battery Voltage (V)      |
| RPM                      |
| Power* (kW)              |
| Apparent Power* (kVA)    |
| Current* (A)             |
| PF*                      |
| Historical Log           |
| Alarm History            |

## Dimensions



Detailed drawings, brochures and manuals are available on the web [soleadvance.com](http://soleadvance.com).  
Technical specifications, data and presentation are subjected to variations, changes and updates without prior notice.  
Non-contractual information.

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